

TRANSMITTAL FORM <small>to be used for all correspondence after initial filing</small>		Application Number	10/007,270
		Filing Date	November 8, 2001
		First Named Inventor	Hageman, Gregory S.
		Art Unit	1647
		Examiner Name	Sharon L. Turner
Total Number of Pages in This Submission		Attorney Docket Number	020618-000120US

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By: Nicole M. Wartell
Nicole M. Wartell



PATENT
Attorney Docket No.: 020618-000120US
Client Reference No.: N8-79CIP2

1647

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Gregory S. Hageman

Application No.: 10/007,270

Filed: November 8, 2001

For: THERAPEUTICS AND
DIAGNOSTICS FOR OCULAR
ABNORMALITIES

Examiner: Sharon L. Turner

Art Unit: 1647

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER 37
CFR §1.97 and §1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. This application relies upon U.S. Patent Application Nos. 09/430,195 and 09/183,972 for an earlier effective filing date under 35 U.S.C. §120. In accordance with 37 CFR §1.98(d), copies of those references that have been previously submitted to or cited by the Office in the parent application are not enclosed. Copies of references C15 and C16 are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

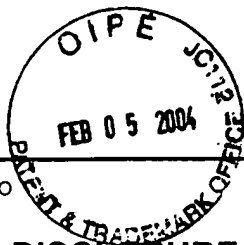
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Respectfully submitted,



Scott L. Ausenhus
Reg. No. 42,271

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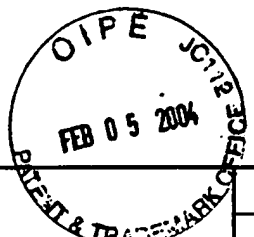
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Sheet	1	of	5	Examiner Name	Sharon L. Turner
				Attorney Docket Number	020618-000120US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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FOREIGN PATENT DOCUMENTS								
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Sheet **2**

of

5**Complete if Known**

Application Number	10/007,270
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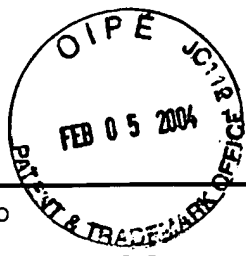
NON PATENT LITERATURE DOCUMENTS

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	C1	Acharya, S. et al. SPACR, "A novel interphotoreceptor matrix glycoprotein in human retina that interacts with hyaluronan." J Biol Chem 273, 31599-31606 (1998).	
	C2	Acharya, S., Rayborn, M. & Hollyfield, J. "Characterization of SPACR, a sialoprotein associated with cones and rods present in the interphotoreceptor matrix of the human retina: immunological and lectin binding analysis." Glycobiology 8, 997-1006 (1998).	
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	C4	Alignments HSIMIPG3, HSIMPG17 Felbor w/ SEQ ID NOs 1.3.5	
	C5	Anderson et al., "Vitronectin Receptor Expression and Distribution at the Photoreceptor-Retinal Pigment Epithelial Interface", J. Comp. Neurol. 360:1-16 (1995).	
	C6	Blanks, J.C., Johnson, L.V. & Hageman, G.S. "Stage-specific binding of peanut agglutinin to aggregates of degenerating photoreceptor cells in the rd mouse retina." Exp. Eye Res., 265-273 (1993).	
	C7	Chaitin, M.H., Wortham, H.S. & Brun-Zinkernagel, A.M. "Immunocytochemical localization of CD44 in the mouse retina." Exp. Eye Res. 58, 359-365 (1994)	
	C8	Chu, Y. et al. "Developmental study of chondroitin-6-sulphate in normal and dystrophic rat retina." Graefes Archive Clin. & Exp. Ophthalmol. 230, 476-482 (1992).	
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	C11	GEHRIG, A. et al. "Assessment of the interphotoreceptor matrix proteoglycan-1 (IMPG1) gene localized to 6q13-q15 in autosomal dominant Stargardt-like disease (ADSTGD), progressive bifocal chorioretinal atrophy (PBCRA) and North Carolina macular dystrophy (MCDR1)" J. Med. Genetics, August 1998, pp. 641-654, Vol. 35, No. 8.	
	C12	Genbank Accession No. AA721009 (1998)	
	C13	Genbank Accession No. AA815118 (1998)	
	C14	Genbank Accession No. AF01772 (1998)	

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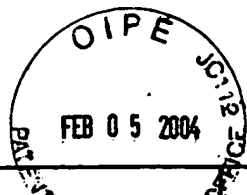
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				Examiner Name	Sharon L. Turner
Sheet	3	of	5	Attorney Docket Number	020618-000120US

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	C15	Genbank Accession No. AF047491, February 24 1998 (KUEHN, M.H.)	
	C16	Genbank Accession No. AF047492, February 24 1998 (KUEHN, M.H.)	
	C17	Genbank Accession No. H38604 (1995)	
	C18	Genbank Accession No. U76717(1996)	
	C19	Hageman and Johnson, "Structure, Composition and Function of the Retinal Interphotoreceptor Matrix", Progress in Retinal Research, Vol. 10, pp. 207-249, Osborne and Chader, eds., Pergamon Press (1991).	
	C20	Hageman et al., "The Interphotoreceptor Matrix Mediates Primate Retinal Adhesion", Arch. of Ophthalmology 113:655-660 (1995).	
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	C25	Hewitt and Adler, "The retinal pigment epithelium and interphotoreceptor matrix: structure and specialized functions", Retina, Ryan et al., eds., pp. 57-64, The C. V. Mosby Company (1989).	
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	C28	Hollyfield, J.G., Rayborn, M.E., Tammi, M. & Tammi, R. "Hyaluronan in the Interphotoreceptor Matrix of the Eye: Species Differences in Content, Distribution, Ligand Binding and degradation." Exp Eye Res 66, 241-248 (1998).	
	C29	Iwasaki, M., Rayborn, M.E., Tawara, A. & Hollyfield, J.G. "Proteoglycans in the mouse interphotoreceptor matrix. V. Distribution at the apical surface of the pigment epithelium before and after retinal separation." Exp. Eye Res. 54, 415-432 (1992).	

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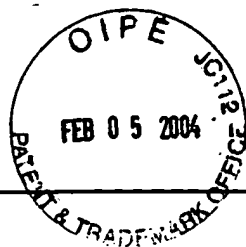


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	C30	Johnson and Hageman, "Structural and Compositional Analyses of Isolated Cone Matrix Sheaths", Invest. Ophthalmol. Vis. Sci. 32:7:1951-1957 (1991).	
	C31	Johnson et al., "Effects of Retinal Degenerations on the Cone Matrix Sheath", Inherited and Environmentally Induced Retinal Degenerations, pp. 217-232, Alan R. Liss, Inc. (1989).	
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	C33	Korte et al., "Hyaluronate Distribution in the Regenerating Retinal Pigment Epithelium of the Rabbit: A Study Using Confocal Laser Scanning Microscopy", Microscopy Res. Tech. 29:344-349 (1994).	
	C34	Kuehn, M.H. et al., "H. sapiens interphotoreceptor matrix proteoglycan 150 (IMPG1)", Database Genbank [Online] Accession No. AF047492 (February 24, 1998).	
	C35	Kuehn, M.H. et al., "M. fascicularis interphotoreceptor matrix proteoglycan 150", Database Genbank [Online] Accession No. AF047491 (February 24, 1998).	
	C36	Kuehn, M., Stone, E. & Hageman, G. "Molecular analyses of IPM 150, a photoreceptor cell-specific proteoglycan." Invest. Ophthalmol. Vis. Sci. Suppl. 38, S599 (1997).	
	C37	KUEHN, M.H. & HAGEMAN G.S. "Characterization of a cDNA encoding IPM150, a novel human interphotoreceptor matrix chondroitin 6-sulfate proteoglycan" Invest. Ophthalmol. & Vis. Sci., 15 March 1995, p. S510, Vol. 36, No. 4.	
	C38	Kuehn, M.H., Mullins, R.F. & Hageman, G.S. "Retinal interphotoreceptor matrix proteoglycan core protein sequences are unique and highly conserved." Invest. Ophthalmol. Vis. Sci. Suppl. 34, 1201 (1993).	
	C39	Lazarus and Hageman, "Xyloside-Induced Disruption of Interphotoreceptor Matrix Proteoglycans Results in Retinal Detachment", Invest. Ophthalmol. Vis. Sci. 33:2:364-376 (1992).	
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	C41	LEWIN, BENJAMIN <u>Genes IV</u> , 1990, p. 810, Oxford University Press	
	C42	Marmor et al., "Retinal Adhesiveness in Surgically Enucleated Human Eyes", Retina 14:181-186 (1994).	
	C43	Miezewska, "The Interphotoreceptor Matrix, a Space in Sight", Microsc. Res. Tech. 35:463-471 (1996).	
	C44	Miezewska, K.E., van Veen, T., Murray, J.M. & Aguirre, G.D. "Rod and cone specific domains in the interphotoreceptor matrix." J. Comp. Neurol. 308, 371-380 (1991).	
	C45	Porrello and LaVail, "Immunocytochemical localization of chondroitin sulfates in the interphotoreceptor matrix of the normal and dystrophic rat retina", Curr. Eye Res. 5:12:981-993 (1986).	
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	C46	PRYSIECKI, CRAIG et al. "Occurrence of β -hydroxylated asparagines residues in non-vitamin K- dependent proteins containing epidermal growth factor-like domains" <i>Proc. Natl. Acad. Sci.</i> , November 1987, pp. 7856-7860, Vol. 84.	
	C47	Russell and Hageman, "Insoluble Interphotoreceptor Matrix in Human Vitreous After Rhegmatogenous Retinal Detachment", <i>Amer. J. Ophthalmol.</i> 23:386-391 (1997).	
	C48	SAMBROOK, J. et al. <i>Molecular Cloning: A Laboratory Manual, Second Edition</i> , 1989, pp. 9.47-9.50 & 11.48-11.49, Cold Spring Harbor Laboratory Press.	
	C49	SKOLNICK, JEFFREY & FETROW, JACQUELYN "From genes to protein structure and function: novel applications of computational approaches in the genomic era" <i>Trends in Biotech.</i> , 2000, pp. 34- 39, Vol. 18, No. 1	
	C50	Stone, E. et al. "Clinical features of a Stargardt-like dominant progressive macular dystrophy with genetic linkage to chromosome 6q." <i>Arch. Ophthalmol.</i> 112, 765-772 (1994).	
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	C55	Yao et al., "Retinal Adhesiveness Is Weakened by Enzymatic Modification of the Interphotoreceptor Matrix in Vivo", <i>Invest. Ophthalmol. Vis. Sci.</i> 31:2051-2058 (1994).	

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